

Serial No. 10/729,888
Wakefield, et al.
Filed December 5, 2003

Response to Office Action

Examiner: Phuong Thao Cao
Group Art Unit: 2164

free text relatable to the data tuples of the structured data;

(iii) accessing the source of unstructured data through said second access reference;

(iv) interpreting the free text of the unstructured data to produce a set of construed data reflecting at least one multi-dimensional relational fact conveyed in the free text, each multi-dimensional relational fact including a plurality of attributes extracted from the free text, each construed datum relatable to a data tuple of the structured data;

(v) accessing the database of structured data; and

(vi) integrating the produced data with the data tuples of the structured data.

Claim 2 (original) 2. A system according to claim 1, wherein said accessing the source of unstructured data accesses text contained within the database of structured data.

Claim 3 (original) 3. A system according to claim 1, wherein said first access reference and said second access reference separate data sources.

Claim 4 (original) 4. A system according to claim 1, wherein said instructions are further executable to perform the function of applying caseframes while performing said interpreting the free text.

Claim 5 (original) 5. A system according to claim 1, wherein said instructions are further executable to perform the functions of:

(vii) reading a storage reference through said input device set, the storage reference providing a location for a product database;

(viii) producing a new database containing the integrated data produced by said integrating; and

(ix) storing the new database to the location reference by the storage reference.

Claim 6 (original) 6. A system according to claim 1, wherein said instructions are further executable to perform the function of inserting the produced data into the database of

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structured data referenced by the first access reference while performing said integrating the produced data.

Claim 7 (original) 7. A system according to claim 1, wherein said instructions are further executable to perform the function of creating a new database while performing said integrating the produced data.

Claim 8 (original) 8. A system according to claim 7, wherein the instructions are further executable to produce a new relational database containing the integrated data produced by said integrating.

Claim 9 (original) 9. A system according to claim 7, wherein the instructions are further executable to produce a file containing the integrated data produced by said integrating.

Claim 10 (original) 10. A system according to claim 9, wherein the instructions are further executable to produce a file having a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

Claim 11 (original) 11. A system according to claim 1, wherein said instructions are further executable to store an integrated database while performing said integrating the produced data.

Claim 12 (original) 12. A system according to claim 1, wherein the integrated data produced by the performance of said integrating the produced data includes reference information to the original free text for construed data.

Claim 13 (currently amended) 13. A system according to claim 1, wherein said instructions are further executable to perform analytic processing of data ~~mining on~~ the integrated data.

Claim 14 (original) 14. A system according to claim 1, wherein said instructions are further

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executable to render a visual representation all or a part of the integrated data.

Claim 15 (currently amended) 15. A method of providing a service to integrate structured and unstructured data, comprising the steps of:

reading a first access reference from computer-readable storage media through said input device set, the first access reference referencing a customer's database of structured data containing a set of data tuples;

reading a second access reference from computer readable storage media through said input device set, the second access reference referencing a customer's source of unstructured data, the unstructured data including free text relatable to the data tuples of the structured data;

accessing the a source of unstructured data through in said second access reference;

interpreting the free text of the unstructured data to produce a set of construed data reflecting at least one multi-dimensional relational fact conveyed in the free text, each multi-dimensional relational fact including more than one attribute concerning the free text, each construed datum relatable to a data-tuple of the structured data;

accessing a the database of structured data; and

integrating the produced data with the data-tuples of the structured data.

Claim 16 (original) 16. A method according to claim 15, wherein said accessing the source of unstructured data accesses text contained within the database of structured data.

Claim 17 (original) 17. A method according to claim 15, wherein said first access reference and said second access reference reference separate data sources.

Claim 18 (original) 18. A method according to claim 15, further comprising the step of applying caseframes while performing said interpreting the free text.

Claim 19 (original) 19. A method according to claim 15, further comprising the steps of:

(vii) reading a storage reference through said input device set, the storage reference

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providing a location for a product database;

(viii) producing a new database containing the integrated data produced by said integrating;
and

(ix) storing the new database to the location reference by the storage reference.

Claim 20 (original) 20. A method according to claim 15, further comprising the step of inserting the produced data into the database of structured data referenced by the first access reference while performing said integrating the produced data.

Claim 21 (original) 21. A method according to claim 15, further comprising the step of creating a new database while performing said integrating the produced data.

Claim 22 (original) 22. A method according to claim 21, further comprising the step of producing a new relational database containing the integrated data produced by said integrating.

Claim 23 (original) 23. A method according to claim 21, further comprising the step of producing a file containing the integrated data produced by said integrating.

Claim 24 (original) 24. A method according to claim 23, wherein the produced file has a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

Claim 25 (original) 25. A method according to claim 15, further comprising the step of storing an integrated database while performing said integrating the produced data.

Claim 26 (original) 26. A method according to claim 15, wherein the integrated data produced by the performance of said integrating the produced data includes reference information to the original free text for construed data.

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Claim 27 (original) 27. A method according to claim 15, further comprising the step of data mining the integrated data.

Claim 28 (original) 28. A method according to claim 15, further comprising the step of rendering a visual representation all or a part of the integrated data.

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Daniel P. McCarthy
Reg. No. 36,600
P.O. Box 71550
Salt Lake City, UT 84171-0550
Tel 801 661 8998
Fax 435 615 9669
Email: dmccart@xmission.com